



# *Products From Trees*

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dye  
oxygen  
piano keys  
rayon – books  
fishing lures – inks  
telephone books  
varnish – atlases and maps  
price tags – ping pong balls  
tires – umbrella handles – signs  
automobile instrument panels  
space craft reentry shields – newspaper  
photographic film – newspapers – posters  
football helmets – toilet seats – guitars  
road building materials – insulation  
shatterproof glass – artificial vanilla flavoring  
cork – vacuum cleaner bags – movies – stadium seats  
adhesives – decorations – turpentine – camphor – waxes  
fireworks – crayons – tannin – charcoal – pine oil – pitch  
musical instruments – perches for birds of prey – toilet paper  
milk cartons – flooring – bark for landscaping – cardboard  
grocery bags – furniture – chewing gum – paper towels  
oil spill control agents – Christmas trees – hockey sticks  
wildlife habitat – cosmetics – roofs – baby foods – cider – vitamins  
cooking utensils – photographic paper – lacquer – pallets – rubber gloves  
mulch – clean water – golf tees – egg cartons – nail polish – fence posts – toys  
toothpaste – eyeglass frames – syrup – antacids – shampoo – rubber gloves  
menthol – electrical outlets – medicines – energy for electricity – plates and bowls  
sausage casings – torula yeast – rulers – wooden blocks – houses – notebook paper – oars  
plywood – paper plates – computer casings – stain remover – coffee filters – toothpicks  
movie tickets – carpet and upholstery backsides – imitation bacon – diapers – horse corrals  
postcards – tax forms – sponges – shade – particle board – shoe polish – luggage – bowling alley lanes  
postage stamps – colognes – animal bedding – irrigation piping – fruit pie filling – golf balls – game boards  
suspending agent for drinking soda – pencils – dry wall – baby cribs – baseball bats – lumber – decoys – kites  
magazines – ice cream thickener – step ladders – birthday cards – broom sticks – cider – ceiling tiles  
crutches – backyard play sets – axe handle – food labels – walnuts – candy wrappers  
scenery – party invitations – disinfectants – cd inserts – gummed tape – fruit  
railroad ties – shelter belts – puzzles – swings – baking cups  
buttons – cutting boards  
benches – bird houses  
stereo speakers  
garden stakes  
stairways – beds  
tables – barrels  
window frames  
bulletin boards  
linoleum – seesaws  
fishing boats – billboards  
disposable medical clothing  
church pews – totem poles – desks

***How many other tree products can you list?***

**Trees are amazing!** They provide beauty, shade, oxygen, clean air and water, fruit, nuts and wood products such as paper, furniture and lumber. These benefits are well known. But did you know that literally *thousands* of products are made from trees? Many are surprising! From the medicine L-Dopa for treating Parkinson's Disease, to film in your camera, forest products are all around us.

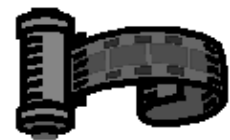
**When trees are used** to make lumber and plywood, there are leftover chips, bark and sawdust. The chips and sawdust are made into wood pulp for paper and other products. Not too long ago, those leftovers would have been burned as waste. Bark is used for landscaping and to generate electricity for paper and lumber mills. Modern forest product operations are very efficient at using every part of a tree. Nothing is wasted!

**Wood** is made of tiny fibers (**cellulose**) and the natural glue that holds them together (**lignin**). When wood is turned into pulp for paper, heat and chemicals dissolve the lignin and release cellulose fibers. By-products of this process are used in asphalt, paint, chewing gum, detergents and turpentine.

**Cellulose** is used for paper and much, much more. It is a principle part of melamine dinnerware, toilet seats, tool handles and cellophane. It is also used to produce helmets, toothbrushes and electrical outlets. Other refined cellulose products include rayon fabric and nitrocellulose, which is used to make nail polish, solid rocket fuel and industrial explosives.

**Wood pulping by-products** are used for many different things, ranging from cleaning compounds, deodorants and hair spray, to artificial vanilla flavoring, medicines and cosmetics. **Torula yeast**, produced from wood sugars separated in the pulping process, is a high-protein product used in baby foods, cereals, imitation bacon, pet foods, and baked goods.

**Silvichemicals** (chemicals from trees) are so much a part of our civilization that we take them for granted. But they wouldn't exist without wood and wood products. Trees are truly a renewable resource!



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Printed on recycled paper with federal funds.  
Rev. 9/02